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(71) Applicant (for all designated States except US): **REINZ-  
DICHTUNGS-GMBH** [DE/DE]; Reinzstrasse 3-7, 89233  
Neu-Ulm (DE).

(71) Applicant (for US only): **GAUGLER, Bernd** [DE/DE];  
Kohlgrasse 15, 89073 Ulm (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SAILER, Albrecht**  
[DE/DE]; Bgm.-Lopp-Strasse 4, 89233 Neu-Ulm (DE).  
**KUNZ, Claudia** [DE/DE]; Neue Strasse 125, 89073  
Ulm (DE). **SCHERER, Joachim** [DE/DE]; Sachsenweg  
67, 89075 Ulm (DE). **STRÖBEL, Raimund** [DE/DE];

Gartenstrasse 15, 89077 Ulm (DE). **SCHLEIER, Chris-  
tian** [DE/DE]; Wasserburger Weg 123, 89312 Günzburg  
(DE).

(74) Agent: **PFENNING, MEINIG & PARTNER GBR**;  
Joachimstaler Strasse 10-12, 10719 Berlin (DE).

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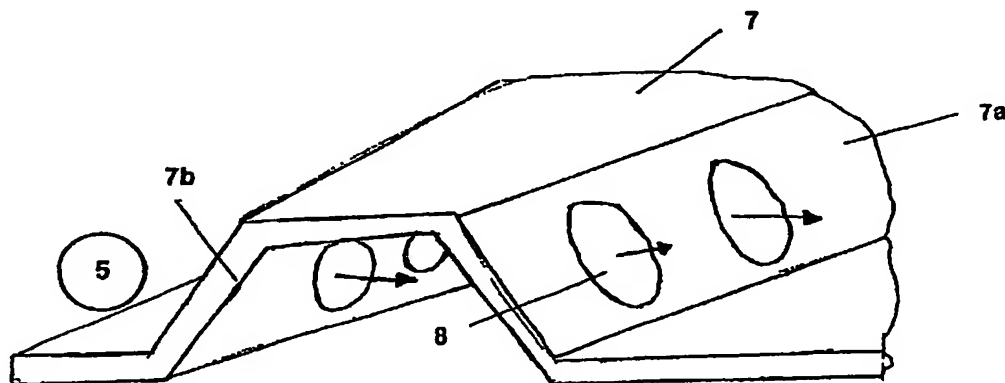
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(54) Title: ELECTROCHEMICAL SYSTEM



(57) Abstract: The invention deals with an electrochemical system for compressing gases and/or for producing gases by electrolysis, consisting of an electrochemical compressor stack (1) having layering of several electrochemical cells, which are separated from one another in each case by bipolar plates (3; 3'), wherein the bipolar plates have openings for media supply and media discharge (5a, 5b) for the electrochemical cells and the electrochemical cell stack can be placed under mechanical compressive strain in direction (6) of the layering. The bead arrangements (7; 7') are resilient and are provided at least in some regions to seal the openings (4, 5a, 5b) and/or an electrochemically active region (10) of the electrochemical cells.

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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 02/069416 A (CHEN COLIN CHING-HO ; POPIELAS FRANK WALTER (US); DANA CORP (US); SHAH) 6 September 2002 (2002-09-06)</p> <p>the whole document</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-/--</p>	<p>1-6, 9-11, 13-15, 18-20, 22, 24, 26-29, 31, 33, 34, 37-41</p>



Further documents are listed in the continuation of box C.



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European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Reich, C

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 320 092 A (ULINE LAWRENCE J) 16 May 1967 (1967-05-16)  column 2, line 47 - column 3, line 20; figures 2-4	1-4, 6, 9-11, 13-15, 18-22, 24-31, 33, 34, 36-41
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X	US 3 012 086 A (VAHIDICEK NATHAN P) 5 December 1961 (1961-12-05) claims 10, 11	1, 27, 28, 41
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05, 14 September 2000 (2000-09-14) & JP 2000 048835 A (NOK CORP), 18 February 2000 (2000-02-18) abstract	1, 27, 28, 41

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Information on patent family members

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